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OM protein - protein search, using sw model

Run on: May 10, 2005, 08:07:07 ; Search time 43 Seconds  
(without alignments)  
890.581 Million cell updates/sec

Title: US-10-051-902A-20  
Perfect score: 2559  
Sequence: 1 MASDELAKAVEPRKKNVKY.....AEEAEDAAKEKVVELPSSK 513

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents\_AA.\*  
1: /cgn2\_6/ptodata/1/iaa/5A\_COMB.pep.\*  
2: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pep.\*  
3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/1/iaa/PCTUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB	ID	Description
1	2559	100.0	513	3	US-09-291-922-20	Sequence 20, Appl
2	1906.5	74.5	529	3	US-09-291-922-28	Sequence 28, Appl
3	1872.5	73.2	510	3	US-09-291-922-22	Sequence 22, Appl
4	1764.5	69.0	539	3	US-09-291-922-26	Sequence 26, Appl
5	1542	60.3	523	3	US-09-291-922-24	Sequence 24, Appl
6	1483.5	58.0	549	3	US-09-291-922-30	Sequence 30, Appl
7	664.5	26.0	488	4	US-10-162-012-46	Sequence 46, Appl
8	581.5	22.7	514	4	US-09-489-039A-11902	Sequence 11902, A
9	576	22.5	167	3	US-09-291-922-18	Sequence 18, Appl
10	565	22.1	584	2	US-08-928-692-13	Sequence 13, Appl
11	565	22.1	584	3	US-09-339-972-13	Sequence 13, Appl
12	551.5	21.6	517	4	US-09-679-686B-18	Sequence 18, Appl
13	542	21.2	501	4	US-09-489-039A-11731	Sequence 11731, A
14	533	20.8	476	4	US-09-489-039A-11933	Sequence 11933, A
15	528	20.6	502	4	US-09-679-686B-2	Sequence 2, Appli
16	511	20.0	518	4	US-09-679-686B-23	Sequence 23, Appl
17	505.5	19.8	494	2	US-09-031-392-5	Sequence 5, Appli
18	505.5	19.8	494	3	US-09-299-549-5	Sequence 5, Appli
19	505.5	19.8	494	3	US-09-610-417-5	Sequence 5, Appli
20	502.5	19.6	729	3	US-09-291-922-29	Sequence 29, Appl
21	495	19.3	519	4	US-09-679-686B-24	Sequence 24, Appl
22	489.5	19.1	510	4	US-09-679-686B-19	Sequence 19, Appl
23	484	18.9	493	2	US-09-031-392-10	Sequence 10, Appl
24	484	18.9	493	3	US-09-299-549-10	Sequence 10, Appl
25	484	18.9	493	3	US-09-610-417-10	Sequence 10, Appl
26	482	18.8	514	4	US-09-679-686B-22	Sequence 22, Appl
27	480.5	18.8	524	2	US-08-928-692-12	Sequence 12, Appl

28	480.5	18.8	524	3	US-09-339-972-12	Sequence 12, Appl
29	477.5	18.7	737	3	US-09-291-922-8	Sequence 8, Appli
30	476.5	18.6	518	4	US-09-679-686B-16	Sequence 16, Appl
31	468.5	18.3	511	4	US-09-679-686B-12	Sequence 12, Appl
32	466	18.2	521	4	US-09-489-039A-9549	Sequence 9549, Ap
33	463	18.1	496	4	US-10-146-704-3	Sequence 3, Appli
34	459.5	18.0	558	4	US-09-949-016-10630	Sequence 10630, A
35	459.5	18.0	562	4	US-10-162-012-44	Sequence 44, Appl
36	453	17.7	492	2	US-08-355-844-3	Sequence 3, Appli
37	453	17.7	492	5	PCT-US95-16126-3	Sequence 3, Appli
38	453	17.7	747	3	US-09-291-922-2	Sequence 2, Appli
39	450.5	17.6	329	4	US-09-710-279-1942	Sequence 1942, Ap
40	443	17.3	504	4	US-09-679-686B-21	Sequence 21, Appl
41	439.5	17.2	509	2	US-09-031-392-6	Sequence 6, Appli
42	439.5	17.2	509	3	US-09-299-549-6	Sequence 6, Appli
43	439.5	17.2	509	3	US-09-610-417-6	Sequence 6, Appli
44	423	16.5	506	4	US-09-248-796A-20075	Sequence 20075, A
45	421.5	16.5	534	2	US-09-031-392-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1  
US-09-291-922-20  
; Sequence 20, Application US/09291922  
; Patent No. 6383776  
; GENERAL INFORMATION:  
; APPLICANT: Allen, Steve  
; APPLICANT: Hitz, Bill  
; APPLICANT: Kinney, Tony  
; APPLICANT: Tingey, Scott  
; TITLE OF INVENTION: Plant Sugar Transport Proteins  
; FILE REFERENCE: BB-1163  
; CURRENT APPLICATION NUMBER: US/09/291,922  
; CURRENT FILING DATE: 1999-04-14  
; EARLIER APPLICATION NUMBER: 60/083,044  
; EARLIER FILING DATE: April 24, 1998  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: Microsoft Office 97  
; SEQ ID NO 20  
; LENGTH: 513  
; TYPE: PRT  
; ORGANISM: Zea mays  
US-09-291-922-20

Query Match	100.0%;	Score	2559;	DB	3;	Length	513;
Best Local Similarity	100.0%;	Pred. No.	7.6e-255;				
Matches	513;	Conservative	0;	Mismatches	0;	Indels	0;
						Gaps	0;
QY	1	MASDELAKAVEPRKKNVKYASICAILASMASVILGYDYGVMGSAAMYIKKDLNITDVQL	60				
Db	1	MASDELAKAVEPRKKNVKYASICAILASMASVILGYDYGVMGSAAMYIKKDLNITDVQL	60				
QY	61	EILIGILSLYSLFGSFAGARTSDRIGRRLTVVFAAVIFFVGSLLMGFAVNYGMLMAGRFV	120				
Db	61	EILIGILSLYSLFGSFAGARTSDRIGRRLTVVFAAVIFFVGSLLMGFAVNYGMLMAGRFV	120				
QY	121	AGVGVGYGGMIAPVYTAEISPAASRGFLTTFPEVINIGILLGYSNFAFARLPLHLGWR	180				
Db	121	AGVGVGYGGMIAPVYTAEISPAASRGFLTTFPEVINIGILLGYSNFAFARLPLHLGWR	180				
QY	181	VMLAIGAVPSGLLALLVFCMPESPRLWLKGRLLADARAVLEKTSATPEEAAERLADIKAA	240				
Db	181	VMLAIGAVPSGLLALLVFCMPESPRLWLKGRLLADARAVLEKTSATPEEAAERLADIKAA	240				
QY	241	AGIPKGLDGVVTVPGKEQGGGELQVWKLLISPTPAVRRILLSAVGLHFFQOAGSDSV	300				
Db	241	AGIPKGLDGVVTVPGKEQGGGELQVWKLLISPTPAVRRILLSAVGLHFFQOAGSDSV	300				
QY	301	VOYSARLFKSAGITDDNKLGLGVTCAVGVTKTFFILVATFLLDRAGRRPLLLISTGGMIVS	360				
Db	301	VOYSARLFKSAGITDDNKLGLGVTCAVGVTKTFFILVATFLLDRAGRRPLLLISTGGMIVS	360				

QY	361	LICLGSGLTVAGHHPDTKVAVAVALCIASTLSYIAFFSIGLGPITGVYTSEIFPLQVRAL	420
Db	361	LICLGSGLTVAGHHPDTKVAVAVALCIASTLSYIAFFSIGLGPITGVYTSEIFPLQVRAL	420
QY	421	GFAVGVASNRVTSAVISMTFSLSKAITIGGSFFLYSGIAAVAVVFFFTCLPETRGRITLE	480
Db	421	GFAVGVASNRVTSAVISMTFSLSKAITIGGSFFLYSGIAAVAVVFFFTCLPETRGRITLE	480
QY	481	EMGKLFGMPTGMAEEAEDAAAKEKVVELPSSK	513
Db	481	EMGKLFGMPTGMAEEAEDAAAKEKVVELPSSK	513

RESULT 2  
 US-09-291-922-28  
 ; Sequence 28, Application US/09291922  
 ; Patent No. 6383776  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Allen, Steve  
 ; APPLICANT: Hitz, Bill  
 ; APPLICANT: Kinney, Tony  
 ; APPLICANT: Tingey, Scott  
 ; TITLE OF INVENTION: Plant Sugar Transport Proteins  
 ; FILE REFERENCE: BB-1163  
 ; CURRENT APPLICATION NUMBER: US/09/291,922  
 ; CURRENT FILING DATE: 1999-04-14  
 ; EARLIER APPLICATION NUMBER: 60/083,044  
 ; EARLIER FILING DATE: April 24, 1998  
 ; NUMBER OF SEQ ID NOS: 30  
 ; SOFTWARE: Microsoft Office 97  
 ; SEQ ID NO 28  
 ; LENGTH: 529  
 ; TYPE: PRT  
 ; ORGANISM: Triticum aestivum  
 ; US-09-291-922-28

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QY      479 LEEMGKLFMPDTCMAEEAEADAAAKEK 505
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Db      498 LEEIGKLFGMTDT--AVEAQDTATKDK 522

RESULT 3
US-09-291-922-22
; Sequence 22, Application US/09291922
; Patent No. 6383776
; GENERAL INFORMATION:
; APPLICANT: Allen, Steve
; APPLICANT: Hitz, Bill
; APPLICANT: Kinney, Tony
; APPLICANT: Tingey, Scott
; TITLE OF INVENTION: Plant Sugar Transport Proteins
; FILE REFERENCE: BB-1163
; CURRENT APPLICATION NUMBER: US/09/291,922
; CURRENT FILING DATE: 1999-04-14
; EARLIER APPLICATION NUMBER: 60/083,044
; EARLIER FILING DATE: April 24, 1998
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 22
; LENGTH: 510
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (102)
US-09-291-922-22

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US-09-291-922-26  
; Sequence 26, Application US/09291922  
; Patent No. 6383776  
; GENERAL INFORMATION:  
; APPLICANT: Allen, Steve  
; APPLICANT: Hitz, Bill  
; APPLICANT: Kinney, Tony  
; APPLICANT: Tingey, Scott  
; TITLE OF INVENTION: Plant Sugar Transport Proteins  
; FILE REFERENCE: BB-1163  
; CURRENT APPLICATION NUMBER: US/09/291,922  
; CURRENT FILING DATE: 1999-04-14  
; EARLIER APPLICATION NUMBER: 60/083,044  
; EARLIER FILING DATE: April 24, 1998  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: Microsoft Office 97  
; SEQ ID NO 26  
; LENGTH: 539  
; TYPE: PRT  
; ORGANISM: Triticum aestivum  
US-09-291-922-26  
Query Match 69.0%; Score 1764.5; DB 3; Length 539;  
Best Local Similarity 68.8%; Pred. No. 6.7e-173;  
Matches 351; Conservative 63; Mismatches 91; Indels 5; Gaps 2;  
QY 6 LAKAVEPRKGNVKYASICAILASMASVILGYDIGVMSGAAMYIKKDLNITDVQLEILIG 65  
Db 31 LPAAVEPKKGNVRFACAILASMTSILLGYDIGVMSGASLYIQDKLINDTQLEVLNG 90  
QY 66 ILSLSYSLFGSFAGARTSDRIGRLTVVFAAVIFFVGSLLMGFAVNYGMLMAGRFVAGVG 125  
Db 91 ILNVYSLIGSFAAGRTSDWIGRRFTIVFAAVIFFAGALIMGFSVNYAMLFGRFVAGIGV 150  
QY 126 GYGGMIAPVYTAEISPAASRGFLTTFPEVFINIGILLGVLSNFAFARLPLHLGWRVMLAI 185  
Db 151 GYALMIAPVNTGEVSPASARGVLTSPFVFINFGILLGVVSNFAFARLSRLGWRIMLGI 210  
QY 186 GAVPSGLLALLVFCMPESPRWLVLKGRLLADARAVLEKTSATPEEAERLADIKAAAGIPK 245  
Db 211 GAVPSVLLAFMVLGMPESPRWLVMKGRLLADAKVVLAKTSDTPEEAERIAIDIKTAAGIPL 270  
QY 246 GLDGDVTVPGKEQGGELQVWKKLILSPTPAVRRILLSAVGLHFFQOASGDSVVQYSA 305  
Db 271 GLDGDVVPVPKNGSSEKRVLKDILSPTIAMRHILLIAGIGIHFFQOSSGIDAVVLYSP 330  
QY 306 RLFKSAGITDDNKLGVTCAGVTKTFFILVATFLLDRAGRRPRLLLISTGGMIVSLICLG 365  
Db 331 LVFKSAGITGDSRLRGTTVAVGATNTVFILVATFLLDRIRRRPLVLTSTGGMVSLVGLA 390  
QY 366 SGLTVAGHHPDTKVAVAWALCIASLTLSYIAFFSIGLGPITGVYTSEIFPLQVRALGFAVG 425  
Db 391 TGLTVISRHPDEKITWAILVCIFCIMAYVAFFSIGLGPITWTWYSSSEIFPLHVRALGCSLG 450  
QY 426 VASNRVTSAVISMTFSLSKAITIGGSFFLYSGIAAVAVWVFFFTCLPETRGRITLSEMGKL 485  
Db 451 VAVNRLTSGVISMTFISLSKAMTIGGAFFLFAGIASFAWVFFFAYLPETRGRITLDMSSL 510  
QY 486 FGMPDT---GMAEEAEDAAAKEKVVELPSS 512  
Db 511 FGNTATHKQGAEEADDDAG--EKKVEMAAT 538  
RESULT 5  
US-09-291-922-24  
; Sequence 24, Application US/09291922  
; Patent No. 6383776  
; GENERAL INFORMATION:  
; APPLICANT: Allen, Steve  
; APPLICANT: Hitz, Bill  
; APPLICANT: Kinney, Tony  
; APPLICANT: Tingey, Scott  
; TITLE OF INVENTION: Plant Sugar Transport Proteins

; FILE REFERENCE: BB-1163  
; CURRENT APPLICATION NUMBER: US/09/291,922  
; CURRENT FILING DATE: 1999-04-14  
; EARLIER APPLICATION NUMBER: 60/083,044  
; EARLIER FILING DATE: April 24, 1998  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: Microsoft Office 97  
; SEQ ID NO 24  
; LENGTH: 523  
; TYPE: PRT  
; ORGANISM: Glycine max  
US-09-291-922-24  
Query Match 60.3%; Score 1542; DB 3; Length 523;  
Best Local Similarity 62.0%; Pred. No. 5.5e-150;  
Matches 308; Conservative 70; Mismatches 105; Indels 14; Gaps 3;  
QY 1 MASDELAKAVE-----PRKKNVYKIASICAILASMASVILGYDIGVMSGAAMYIK 50  
Db 1 MTEGKLVEAAEAHKTLDQDFPPKKRKRNYAFACAMLASMTSILLGYDIGVMSGAAMYIK 60  
QY 51 KDLNITDVQLEILIGILSLYSLFGSFAGARTSDRIGRLTVVFAAVIFFVGSLLMGFAVN 110  
Db 61 RDLKVSDEQIEILLGIINLYSLIGSLAGRTSDWIGPRYTVFAGTFFVFGALLMGFSPN 120  
QY 111 YGMLMAGRFVAGVGVGGMIAPVYTAEISPAASRGFLTTFPEVFINIGILLGYLSNFAF 170  
Db 121 YSFLMFGRFVAGIGIGYALMIAPVYTAEVSPASSRGFLTSPFVFGINGILIGYISNFAF 180  
QY 171 ARLPLHLGWRVMLAIGAVPSGLLALLVFCMPESPRWLVLKGRLLADARAVLEKTSATPEEA 230  
Db 181 SKLTCLKVGRWMLGVGAIPSVLLTVGVLPAMPESPRWLVMRGLGEARKVLNKTSDSKEEA 240  
QY 231 AERLADIKAAAGIPKGLDGDVTVPGKEQGGELQVWKKLILSPTPAVRRILLSAVGLHF 290  
Db 241 QLRLAEIKQAAGIPESCNDDVQVNVKQSNQEG---VWKELFLYPTPAIRHIVIAALGIHF 297  
QY 291 FQOASGDSVVQYSARLFLKSAGITDDNKLGVTCAGVTKTFFILVATFLLDRAGRRPRL 350  
Db 298 FQOASGVDAVLYSPRIPEKAGITNDTHKLLATVAVGVKTVFILAATFTLDRVGRPRL 357  
QY 351 LISTGGMIVSLICLSGLTVAGHHPDTKVAVAWALCIASLTLSYIAFFSIGLGPITGVYTS 410  
Db 358 LSSVGGMVLSSLTLAISLTVI-DHSERKLMWAVGSSIAMVLAAYVATFSIGAGPITWTYSS 416  
QY 411 EIFPLQVRALGFAVGAVASNRVTSAVISMTFSLSKAITIGGSFFLYSGIAAVAVWVFFTC 470  
Db 417 EIFPLRLRAQGAAGAVAVNRVTSVAVSMVMTFSLTRAITIGGAFFLYCGIATVGIWIFFTV 476  
QY 471 LPETRGRITLSEMGKLF 487  
Db 477 LPETRGRITLSEMGSG 493  
RESULT 6  
US-09-291-922-30  
; Sequence 30, Application US/09291922  
; Patent No. 6383776  
; GENERAL INFORMATION:  
; APPLICANT: Allen, Steve  
; APPLICANT: Hitz, Bill  
; APPLICANT: Kinney, Tony  
; APPLICANT: Tingey, Scott  
; TITLE OF INVENTION: Plant Sugar Transport Proteins  
; FILE REFERENCE: BB-1163  
; CURRENT APPLICATION NUMBER: US/09/291,922  
; CURRENT FILING DATE: 1999-04-14  
; EARLIER APPLICATION NUMBER: 60/083,044  
; EARLIER FILING DATE: April 24, 1998  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: Microsoft Office 97  
; SEQ ID NO 30  
; LENGTH: 549



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; TYPE: PRT
; ORGANISM: Beta vulgaris
US-09-291-922-30

Query Match      58.0%; Score 1483.5; DB 3; Length 549;
Best Local Similarity 61.6%; Pred. No. 6.4e-144;
Matches 299; Conservative 63; Mismatches 112; Indels 11; Gaps 5;

QY 4 DELAKAVEPRKKGNVYASICAAILASMASVILGVDIGVMSGAAAMYIKKDLNITDVQLEIL 63
Db 25 DPLKK---PPKRN--KFAPACATLASMTSVLLGVDIGVMSGAIYLLKEDWHISDTQIGVL 79

QY 64 IGILSLYSLFGSFAGARTSDRIGRRLLTVVFAAVIFFVGSLLMGFAVNYYGMLMAGRFBVAGV 123
Db 80 VGILNIYCLFGSFAAGRTSDWIGRRYITIVLAGAIFVFGALLMGFATNYAFLMVGRFVTGI 139

QY 124 GVGYGMIAPVYTAEISPAASRGFLTTFPEVFINIGILLGLYLSNFAFARLPHLGWRVML 183
Db 140 GVGVALMIAPVYTAEVSPASSRGFLTTSFPEVFINAGILLGYISNLAFSSLPHTLSWRFML 199

QY 184 AIGAVPSGLLALLVFCMPESPRWLVLKRLADARAVLEKTSATPEEAAERLADIKAAAAGI 243
Db 200 GIGAIPSIFLAIGVLAMPESPRWLVMQGRIGDAKKVILNRISDSPEEAQLRLSEIKQTAGI 259

QY 244 PKGLDGDVTVPGKEQGGGELQVWKLLILSPTPAVRRILLSAVGLHFFQOQASGSDSVQY 303
Db 260 PAECDEDIYKVEKTKISGN-AWKELFFNPTPAVRRAVIAGIGIHFFQOQASGIDAVVLY 318

QY 304 SARLFKSAGITDDNKLGVTCAGVTKTFFHILVATFLDDRAGRRPLLLISTGGMIVSLIC 363
Db 319 SPRIFQSAGITNARKQLLATVAVGVVKTFLFILVATFQLDKYGRRRPLLLTSVSGMIIAILT 378

QY 364 LGSGLTVA--GHPDTPKVAWAVALCIASTLSYIAFESIGLGPITGVYTSEIFPLQVRALG 421
Db 379 LAMSLTVIDHSHH---KITWAIALCITMCAVVASFSIGLGPITWVYSSEVFPLRLRAQG 435

QY 422 FAVGVASNRVTSAVISMTFLSLSKAITIGGSFFLYSGIAAVAVVFFFTCLPETRGRTEE 481
Db 436 TSMGVAVNRVWVGVISIFFPLPSHKITTGGAFFLFGGIAIAIAWFFFLTFLPETRGRTEEN 495

QY 482 MGKLF 486
Db 496 MHELF 500

RESULT 7
US-10-162-012-46
; Sequence 46, Application US/10162012
; Patent No. 6682597
; GENERAL INFORMATION:
; APPLICANT: Curtis, Rory A.J.
; APPLICANT: Silos-Santiago, Inmaculada
; APPLICANT: Gu, Wei
; TITLE OF INVENTION: NOVEL HUMAN ION CHANNEL AND TRANSPORTER FAMILY MEMBERS
; FILE REFERENCE: 10448-190001
; CURRENT APPLICATION NUMBER: US/10/162,012
; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 60/209,845
; PRIOR FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: US 09/875,321
; PRIOR FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: PCT/US01/18340
; PRIOR FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: US 60/209,257
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: US 09/875,423
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: PCT/US01/18398
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/209,238
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: US 09/875,363
; PRIOR FILING DATE: 2001-06-05
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; PRIOR APPLICATION NUMBER: PCT/US01/18247
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/227,068
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 09/928,530
; PRIOR FILING DATE: 2001-08-13
; PRIOR APPLICATION NUMBER: PCT/US01/25475
; PRIOR FILING DATE: 2001-08-15
; PRIOR APPLICATION NUMBER: US 60/226,770
; PRIOR FILING DATE: 2000-08-21
; PRIOR APPLICATION NUMBER: US 09/934,421
; PRIOR FILING DATE: 2001-08-21
; PRIOR APPLICATION NUMBER: PCT/US01/26096
; PRIOR FILING DATE: 2001-08-21
; PRIOR APPLICATION NUMBER: US 60/279,281
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: US 10/109,029
; PRIOR FILING DATE: 2002-03-28
; PRIOR APPLICATION NUMBER: PCT/US02/09728
; PRIOR FILING DATE: 2002-03-28
; PRIOR APPLICATION NUMBER: US 60/290,288
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US (not assigned)
; PRIOR FILING DATE: 2002-05-13
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 46
; LENGTH: 488
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: consensus sequence
US-10-162-012-46

Query Match      26.0%; Score 664.5; DB 4; Length 488;
Best Local Similarity 34.9%; Pred. No. 1.4e-59;
Matches 177; Conservative 91; Mismatches 174; Indels 65; Gaps 15;

QY 25 AILASM-ASVILGVDIGVMSG-----AAMYIKKDLNITDVQLEILIGILS 68
Db 2 ALVAALGGGFLFGYDTGVIGGFLALIDFLFRFGLLTSSGALAEVLGVYSTVLTGLVVSIF 61

QY 69 LYSLFGSFAGARTSDRIGRRLLTVVFAAVIFFVGSLLMGFAVNYG-----MLMAGR 120
Db 62 LGRLLGSLFAGKLDGRFGRKKSLLIALVLFVIGALLSGAAPGYTTTIGLWAFYLLIVGRVL 121

QY 121 AGVGVGYGMIAPVYTAEISPAASRGFLTTFPEVFINIGILLGLYLSNFAFARLPLH---- 176
Db 122 VGLGVGGASVLVPMYISEIAPKALRGALGSLYQLAITIGILVA-----AIIGLGNKTN 176

QY 177 -----LGWRVMLAIGAVPSGLLALLVFCMPESPRWLVLKRLADARAVLEKTSATPEEA 230
Db 177 DSALNSWGWRIPLGLQLVPAALLLIGLLFLPESPRWLVEKGKLEEAREVLA 235

QY 231 AERLADIKAAAGIPKGLDGDVTVPGKEQGGGELQVWKLLILSPT-PAVRRILL 289
Db 236 DQEIQEIKA-----LEATV-----SEEKAGKAS-WGELFRGRTRPKVRORLLMGV 283

QY 290 FFQOQASGSDSVVQYSARLFKSAGITDDNKLGVTCAGVTKTFFILVA-TFLLDRAGRRP 348
Db 284 AFQOLTGINAIFYYSPTIFKSVGSDSVASLLVTIIVGVNVFVTFVALIFLVDRFGRRP 343

QY 349 LLLISTGGMIVSLICLGSGLTVA-----GHPDTPKVAWAVALCIASTLSYIAF 402
Db 344 LLLGAAGMAICFLILGASIGVALLLNKPKOPSSKAAGIVA--IVFILLFIAFFALGW 401

QY 403 PITGVYTSEIFPLQVRALGFAVGVASNRVTSAVISMTFLSLSKAI--TIGGSFFL 459
Db 402 PIPWVILSELFTKVRSKALALATAANWLANFIIGFLFPYITGAIGALGGYVFLV 461

QY 460 AAVAWVEFFFTCLPETRGRTEEMGKLF 486
Db 462 LVLFILEVFFVFPETKGRTEIEIEELF 488
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[illegible]

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; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4944.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 584 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: No. 5958727e
; US-08-928-692-13

Query Match 22.1%; Score 565; DB 2; Length 584;
Best Local Similarity 29.5%; Pred. No. 3.5e-49;
Matches 150; Conservative 109; Mismatches 183; Indels 66; Gaps 13;

QY 27 LASMASVILGYDIGVMSGAAMYIKDLN---ITDVQLEILIGILSLYSLFGSFAGARTSD 83
Db 92 VASISGFMFGYDTGYISSALISIGTDLHKVLTGYGEKIVTAATSLGALITSIFAGTAAD 151

QY 84 RIGRRLTVVFAAVIFFVGSLLMGFAVNYGMLMAGRFVAGVGVGYGGMIAPVYTAETISPA 143
Db 152 IFGRKRCLMGSLNMFVIGAILQVSAHTFWQMAVGRLLMGFGVGIGSLIAPLFISEIAPKM 211

QY 144 SRGELTTFPEVFINIGIL-----LGYLSNFAFARLPLHLGWRVMLAIGAVPSGLLAL 195
Db 212 IRGRLTVINSLWLTGGQLVAYCGGAGLNYVNN-----GWRILVGLSLIPTAVQFT 261

QY 196 LVFCMPESPRWLVLKRLADARAVLEKT-SATPEEAERLADIKAAAGIPKGLGDVVT- 253
Db 262 CLCFLPDTPRYVYVMKGLARATEVLKRSYTDTSSEIIEKKVE-----ELVTL 308

QY 254 ---VPGKEQGGELQVWKKL-ILSPTPAVRRILLSAVGLHFFQOASGSDSVVQYSARLEK 309
Db 309 NQSIIPGKNV--PEKVMNTIKELHTVPSNLRALIIGCGLQAIQQFTGWNLSMYFSGTIFE 365

QY 310 SAGITDDNKLGLGVTCAVGVTKTFIFILVATFLLDRAGRRPLLILSTGGMIVSLICLSGLT 369
Db 366 TVGFKNSS---AVSIIVSGTNFIPTLVAFSSIDKIGRRFTILLGLPGMTMALVV---CS 418

QY 370 VAGHHPTTKVAVAWALCIASTLS-----YIAFFSIGLGPITGVYTSEIFPQV 417
Db 419 IAFHFLGIKFDGAVAVVSSGFSWGIVIIIVFAAFYALGIGTVPW-QQSELEFPQNV 477

QY 418 RALGFVAVGASNRVTSAVISMTFLSLSKAITIGGSFFLYSGIAAVAVVFFFTCLPETRGR 477
Db 478 RGIGTSYATATNWAGSLVIASTFLTMLQNITPAGTFAFFAGLSCLSTIFCYFCYPELSGL 537

QY 478 TLEEMGKLFGMPDTGMAEEAEDAAAKEK 505
Db 538 ELEEVQTL---KDGFNKASKALAKKR 562

RESULT 11
US-09-339-972-13
; Sequence 13, Application US/09339972
; Patent No. 6323002
; GENERAL INFORMATION:
; APPLICANT: Brody, Howard
; APPLICANT: Yaver, Deborah S.
; APPLICANT: Lamsa, Michael
; APPLICANT: Hansen, Kim
; TITLE OF INVENTION: Methods for Modifying the Production of
; NUMBER OF SEQUENCES: 80
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 6323002o No. 6323002disk of No. 6323002th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York

```

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; STATE: NY
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/339,972
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/928,692
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4944.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 584 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: No. 6323002e
; US-09-339-972-13

Query Match 22.1%; Score 565; DB 3; Length 584;
Best Local Similarity 29.5%; Pred. No. 3.5e-49;
Matches 150; Conservative 109; Mismatches 183; Indels 66; Gaps 13;

QY 27 LASMASVILGYDIGVMSGAAMYIKDLN---ITDVQLEILIGILSLYSLFGSFAGARTSD 83
Db 92 VASISGFMFGYDTGYISSALISIGTDLHKVLTGYGEKIVTAATSLGALITSIFAGTAAD 151

QY 84 RIGRRLTVVFAAVIFFVGSLLMGFAVNYGMLMAGRFVAGVGVGYGGMIAPVYTAETISPA 143
Db 152 IFGRKRCLMGSLNMFVIGAILQVSAHTFWQMAVGRLLMGFGVGIGSLIAPLFISEIAPKM 211

QY 144 SRGELTTFPEVFINIGIL-----LGYLSNFAFARLPLHLGWRVMLAIGAVPSGLLAL 195
Db 212 IRGRLTVINSLWLTGGQLVAYCGGAGLNYVNN-----GWRILVGLSLIPTAVQFT 261

QY 196 LVFCMPESPRWLVLKRLADARAVLEKT-SATPEEAERLADIKAAAGIPKGLGDVVT- 253
Db 262 CLCFLPDTPRYVYVMKGLARATEVLKRSYTDTSSEIIEKKVE-----ELVTL 308

QY 254 ---VPGKEQGGELQVWKKL-ILSPTPAVRRILLSAVGLHFFQOASGSDSVVQYSARLEK 309
Db 309 NQSIIPGKNV--PEKVMNTIKELHTVPSNLRALIIGCGLQAIQQFTGWNLSMYFSGTIFE 365

QY 310 SAGITDDNKLGLGVTCAVGVTKTFIFILVATFLLDRAGRRPLLILSTGGMIVSLICLSGLT 369
Db 366 TVGFKNSS---AVSIIVSGTNFIPTLVAFSSIDKIGRRFTILLGLPGMTMALVV---CS 418

QY 370 VAGHHPTTKVAVAWALCIASTLS-----YIAFFSIGLGPITGVYTSEIFPQV 417
Db 419 IAFHFLGIKFDGAVAVVSSGFSWGIVIIIVFAAFYALGIGTVPW-QQSELEFPQNV 477

QY 418 RALGFVAVGASNRVTSAVISMTFLSLSKAITIGGSFFLYSGIAAVAVVFFFTCLPETRGR 477
Db 478 RGIGTSYATATNWAGSLVIASTFLTMLQNITPAGTFAFFAGLSCLSTIFCYFCYPELSGL 537

QY 478 TLEEMGKLFGMPDTGMAEEAEDAAAKEK 505
Db 538 ELEEVQTL---KDGFNKASKALAKKR 562

RESULT 12

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US-09-679-686B-18  
; Sequence 18, Application US/09679686B  
; Patent No. 6624343  
; GENERAL INFORMATION:  
; APPLICANT: Allen, Stephen M.  
; APPLICANT: Lightner, Jonathan E.  
; APPLICANT: Rafalski, J. Antoni  
; APPLICANT: Thorpe, Catherine J.  
; TITLE OF INVENTION: HEXOSE CARRIER PROTEINS  
; FILE REFERENCE: BB1160 US NA  
; CURRENT APPLICATION NUMBER: US/09/679,686B  
; CURRENT FILING DATE: 2003-01-16  
; PRIOR APPLICATION NUMBER: 60/081,131  
; PRIOR FILING DATE: 1998-04-09  
; PRIOR APPLICATION NUMBER: PCT/US99/07561  
; PRIOR FILING DATE: 1999-04-07  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: Microsoft Office 97  
; SEQ ID NO 18  
; LENGTH: 517  
; TYPE: PRT  
; ORGANISM: Triticum aestivum  
US-09-679-686B-18

Query Match 21.6%; Score 551.5; DB 4; Length 517;  
Best Local Similarity 30.2%; Pred. No. 7.1e-48;  
Matches 146; Conservative 90; Mismatches 196; Indels 51; Gaps 10;

QY 26 ILASMASVILGYDIGVMSGAA-----MYIKDINITDVQ-----LEILIG 65  
Db 28 VVAATGGLIFGYDIGISGVTSMPNPLKFFPEVYDKQKMGKSASQYCKYDNQLLTFTS 87  
QY 66 ILSLYSLFGSFAGARTSDRIGRRLTWFAAVIFFVGSLLMGFAVNYGMLMAGRFVAGVGV 125  
Db 88 SLYLAALVSSFFAATVTRVGRKWSMFTGGLTFLIGAALNGAAENIAMLIVGRILLGVGV 147  
QY 126 GYGGMIAPVYTAEISPAASRGFLTTFPEVFINIGILLGYLSNFAFARLPLHLGWRVMLAI 185  
Db 148 GFANQSVPVYLSEMAPARLRGMLNIGFQLMITIGILAAALINYDTNKIKAGYGRISLAI 207  
QY 186 GAVPSGLLALLVFCMPESPRWLVLKGRLLADARAVLEKTSATPEEAAERLADIKAAAGIPK 245  
Db 208 AAVPAGIITLGSFFLPDTPNSLIERGHPEAARRMLNRIGSDVDISEEYADLVVASE--- 264  
QY 246 GLDGDVVTVPGKEQGGGELQVWKKLILSPTPAVRRILLSAVGLHFFQOAGSDSVVQYSA 305  
Db 265 --ESKLQHP-----WRNIL---QRKYRQPLTMAIMIPFFQQLTGINVMFYAP 308  
QY 306 RLFKSAGITDDNKLGLVTCAGVTKTFFILVATFLDRAGRRPLLLISTGGMIVSLICLG 365  
Db 309 VLFETLGFKGDAASMSAV-ITGLVNVFATLVSVFTVDRIGRRKFLQGGTQMLLSQLVVG 367  
QY 366 S-----GLTVAGHHPDTKVAWAVALCIASTLSYIAFFSIGLGPITGVYTSEIFPQVRA 419  
Db 368 TLIAVKFGTSGVGEMPKGYAA-AVVLFIG---LYVAGFANSWGPLGWLVPSEIFPLEIRP 423  
QY 420 LGFAGVNASNRVTSAVISMTFLSLSKAITIGGSFFLYSGIAAVAVVFFFTCLPETRGRTL 479  
Db 424 AQQSINVSVMNMLFTTFVIAQAFLTMLCHMKF-GLFVFFAGVWVIMTVFIALFLPETKNVPI 482  
QY 480 EEM 482  
Db 483 EEM 485

RESULT 13  
US-09-489-039A-11731  
; Sequence 11731, Application US/09489039A  
; Patent No. 6610836  
; GENERAL INFORMATION:  
; APPLICANT: Gary Breton et. al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA  
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 2709.2004001  
; CURRENT APPLICATION NUMBER: US/09/489,039A  
; CURRENT FILING DATE: 2000-01-27  
; PRIOR APPLICATION NUMBER: US 60/117,747  
; PRIOR FILING DATE: 1999-01-29  
; NUMBER OF SEQ ID NOS: 14342  
; SEQ ID NO 11731  
; LENGTH: 501  
; TYPE: PRT  
; ORGANISM: Klebsiella pneumoniae  
US-09-489-039A-11731

Query Match 21.2%; Score 542; DB 4; Length 501;  
Best Local Similarity 29.5%; Pred. No. 6.4e-47;  
Matches 148; Conservative 95; Mismatches 204; Indels 54; Gaps 12;

QY 22 SICAILASMASVILGYDIGVMSGAAAMYIKOLNITD-VQLEILIGILSLYSLFGSFAGAR 80  
Db 38 TIC-LVAACGGLLFGYDWWVIGGAKPFYEAWFSITDPAQSGWAMSSALLGCFGALISGW 96  
QY 81 TSDRIGRRLTVFAAAVIFVCSLLMGFAVNYGMLMAGRFVAGVGVGYGGMIAPVYTAEIS 140  
Db 97 CADKLGRLPLILSAVLESASAWGTAVASHFDMFVVTVRIVGGVIGLASALSPLYIAEVS 156  
QY 141 PAASRGFLTTFPEVFINIGILLGYLSNFAFARLPL-----HLGWRVMLAI 185  
Db 157 PAEKRRGRFVAVNQLTIVIGVLAQAQLINLMIAE-PVEPGATQQMIVDSWNGQMGWRMFGA 215  
QY 186 GAVPSGLLALLVFCMPESPRWLVLKGRLLADARAVLEKTSATPEEAAERLADIKAAAGIPK 245  
Db 216 ELVPALAFVLVLMFFVPEPRWLKAGKPERARAAALERIGSA--DYADRI-----LREIAH 268  
QY 246 GLDGDVVTVPGKEQGGGELQVWKKLILSPTPAVRRILLSAVGLHFFQOAGSDSVVQYSA 305  
Db 269 TLEKD---NNKVSYGALL-----APQVKPIVIGMVLAIFFQOWCGINVFNYAQ 314  
QY 306 RLFKSAGITDDNKLGLVTCAGVTKTFFILVATFLDRAGRRPLLLISTGGMIVSLICLG 365  
Db 315 EIFASAGF-DINSTLKSIVATGVVNLVFTIAALPLVDKIGRRKMLLGLASGLTLIYV--- 370  
QY 366 SGLTVAGHHPDTKVAWAVALCIASTLSYIAFFSIGLGPITGVYTSEIFPQVRA 425  
Db 371 ---LIAGAYAMGIMGWPVLLLV---LAAIAIYALTAPVTWVLLAEIFPNRVRLANSLG 424  
QY 426 VASNRVTSAVISMTFLSLSKAITIGGSFFLYSGIAAVAVVFFFTCLPETRGRTEENMGKL 485  
Db 425 TLALWIAACFLTTYTFPLNAGLGAAGSFLLYGVICAAGLYILRNVPETKGITLEALEEQ 484  
QY 486 FGMPDTGMAEEAEADAAKEKV 506  
Db 485 LAQRHTGV-----NAAKQEQM 500

RESULT 14  
US-09-489-039A-11933  
; Sequence 11933, Application US/09489039A  
; Patent No. 6610836  
; GENERAL INFORMATION:  
; APPLICANT: Gary Breton et. al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA  
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 2709.2004001  
; CURRENT APPLICATION NUMBER: US/09/489,039A  
; CURRENT FILING DATE: 2000-01-27  
; PRIOR APPLICATION NUMBER: US 60/117,747  
; PRIOR FILING DATE: 1999-01-29  
; NUMBER OF SEQ ID NOS: 14342  
; SEQ ID NO 11933  
; LENGTH: 476  
; TYPE: PRT  
; ORGANISM: Klebsiella pneumoniae  
US-09-489-039A-11933

Query Match	20.8%;	Score 533;	DB 4;	Length 476;
Best Local Similarity	27.9%;	Pred. No. 5e-46;		
Matches 136;	Conservative 99;	Mismatches 206;	Indels 46;	Gaps 9
QY	13	KKKG--NVKYASICAILASMASVILGYDYGVMGGAAMYIKDLNITDVQLEILIGILSLY	70	
DB	17	KKQGRSNKTMFTFFVCFLAALAGLLFGLDIGVIAGALPFIANEFOISAHTEQEWVSSMMFG	76	
QY	71	SLFGSFAGARTSDRIGRRLTVFAAVIFFVGSLLMGFAVNYGMLMAGRFFVAGVGVGYGGM	130	
DB	77	AAVAVGSGWLSPFKLGRKXSLMIGAILFVAGSLFSAAPNVEILLVSRVLLGLAVGVASY	136	
QY	131	IAPVYTAEISPAASRGFLTTFPEVFINIGILLYLSNFAFARLPDLHLG-WRVMLAIGAVP	189	
DB	137	TAPLYLSEIAPEKIRGSMISMYQLMITIGILGAYLSDTAFS---YSGAWRWMLGVIIIP	192	
QY	190	SGLLALLVFCMPESPRWLVLKRLADARAVLEKTSATPEEAAERLADIKAAAGIPKGLDG	249	
DB	193	AVLLIGVIFLPDSPRWFAAKRRFVDAERVLLRLRDTSAEAKRELDEIRESLKV-----	246	
QY	250	DVTVPGKEQGGELQVWKKLILSPTPAVRRIILLSAVGLHFFQOASGSDSVVQYSARLFK	309	
DB	247	-----KQSG-----WS--LFKDNSNFRRAVFLGILLQVMQOFTGMNVIMYAPKIFE	291	
QY	310	SAGITDDNKLGVTCAGVVTKTFEILVATFELLDRAGRRLPLLIISTGGMIVSLICLSGLT	369	
DB	292	LAGYANTTEQMWGTIVGLTNVLATFIAIGLVDRWGRKPTLILGFIVMAAGMVLGTMMH	351	
QY	370	VAGHHPDTKVAWAVALCIASTLSYIAFFSIGLGPITGVYTSEIFPLQVRALGFVAVGASN	429	
DB	352	I-GHSST---AQYIAVLMMLMFIVGFAMSGAPLIWLVLCEIQPLKGRDFGITCSTATN	406	
QY	430	RVTSAVISMTFLSLSKAITIGGSFFLYSGIAAVAWVFFFTCLPETR-----G	476	
DB	407	WIANNIVGATFLTMLNSLGSANTFWVYGGNLVLFILLTLWLIPETKVNLSLEHIERNLMQG	466	
QY	477	RTLBEEMG	483	
DB	467	RPLREIG	473	

## RESULT 15

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US-09-679-686B-2
; Sequence 2, Application US/09679686B
; Patent No. 6624343
; GENERAL INFORMATION:
; APPLICANT: Allen, Stephen M.
; APPLICANT: Lightner, Jonathan E.
; APPLICANT: Rafalski, J. Antoni
; APPLICANT: Thorpe, Catherine J.
; TITLE OF INVENTION: HEXOSE CARRIER PROTEINS
; FILE REFERENCE: BB160 US NA
; CURRENT APPLICATION NUMBER: US/09/679,686B
; CURRENT FILING DATE: 2003-01-16
; PRIOR APPLICATION NUMBER: 60/081,131
; PRIOR FILING DATE: 1998-04-09
; PRIOR APPLICATION NUMBER: PCT/US99/07561
; PRIOR FILING DATE: 1999-04-07
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 2
; LENGTH: 502
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (488)
; OTHER INFORMATION: Xaa = any amino acid
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (493)
; OTHER INFORMATION: Xaa = any amino acid
;
US-09-679-686B-2

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	Query Match	20.6%;	Score 528;	DB 4;	Length 502;
	Best Local Similarity	28.6%;	Pred. No. 1.8e-45;		
	Matches 140;	Conservative 90;	Mismatches 207;	Indels 52;	Gaps 10
QY	20	YASICAILASMASVILGYDIGVMGAA-----MYIKKDLNITDVQ-----	59		
Db	25	YFILACIVSGFGSLFGYDLGVSSGVTSMDDFLVKFFPDVYRKRQAHLHETDYCKYDNQV	84		
QY	60	LEILIGILSLYSLFSGFAGARTSDRIGRLTVVFAAVIFFVGSLLMGFAVNYGMLMAGRF	119		
Db	85	LTLFTSSLYFAGLVSTFGASYVTKRHGRRASIMGGAASFFLGGAINGAAMNIAMLIVGRI	144		
QY	120	VAGVGVGYGGMIAPVVTAETISPAASRGFLTTPPEVFNTIGLLGYLSNFAFARLPLHLGW	179		
Db	145	LLGVGVGFANQAVPVYLSEMAPARLRGMLNIGFQLMITIGILAAELINYGTNKIKAGYGW	204		
QY	180	RVMLAIGAVPSGLLALVFCMPESPRLWLKGLRADARAVLEKTSATPEEAAERLADIK	239		
Db	205	RVSLAALAAVPAAIITLGSFLPDTNPNSLLERGHPEEARMLRRIRGT-DDIGEYADLVA	263		
QY	240	AAGIPKGLDGDVVTPVKEQGGGELQVKKLILSPTPAVRRILLSAVGLHFFQQAASGDS	299		
Db	264	AS-----BEARQVRHPWRNIL---RRRYRAQLTMVAIPFFQQLKGINV	304		
QY	300	VVQYSARLFKSAGITDDNKLGLVTCAGVTKTFFILVATFLDRAGRRPLLLLISTGGMIV	359		
Db	305	IMFYAPVLFDTLGFKKEAFMS-SVITGLNVFATVVSIVTVDRVGRKKFLQGGQAQMV	363		
QY	360	SLICLGS-----GLTVAGHHPTKVAVAWALCIASTLSYIAFFSIGLGPITGVYTSEIF	413		
Db	364	CQLIVGTLIAAKFGTSGTG--DIAKGYA-AVVVVFICAYVAGFAWSGPLGWLVPSEIF	419		
QY	414	PLQVRALGFVGVASNRVTSAVISMTFLSLSKAITIGGSFFLYSGIAAVAVVFFFTCLPE	473		
Db	420	PLEIRPAGQSINVSVMFFTFICIAQAFLTMLCHKFX-GLFYFFAGVVMVIMTVFIAFFLPE	478		
QY	474	TRGRITLEEM 482			
Db	479	TKNVPIEEM 487			

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Job time : 44 secs



GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: May 10, 2005, 08:13:47 ; Search time 135 Seconds  
(without alignments)  
1267.676 Million cell updates/sec

Title: US-10-051-902A-20  
Perfect score: 2559  
Sequence: 1 MASDELAKAVEPRKKNVKY.....AEEAEDAAAKEKVVELPSSK 513

Scoring table: BLOSUM62  
Gapop.10.0 , Gapext 0.5

Searched: 1428581 seqs, 333598853 residues

Total number of hits satisfying chosen parameters: 1428581

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:\*  
1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep:\*  
2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep:\*  
3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep:\*  
4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep:\*  
5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep:\*  
6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep:\*  
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14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep:\*  
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19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep:\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	2559	100.0	513	13	US-10-051-902-20
2	2559	100.0	513	13	US-10-051-909-20
3	2243	87.7	510	16	US-10-767-701-46041
4	1906.5	74.5	529	13	US-10-051-902-28
5	1906.5	74.5	529	13	US-10-051-909-28
6	1872.5	73.2	510	13	US-10-051-902-22
7	1872.5	73.2	510	13	US-10-051-909-22
8	1854	72.5	502	16	US-10-437-963-190473
9	1764.5	69.0	539	13	US-10-051-902-26
10	1764.5	69.0	539	13	US-10-051-909-26
11	1626	63.5	327	15	US-10-425-114-68399
12	1612.5	63.0	356	15	US-10-425-114-61926
13	1597	62.4	380	15	US-10-425-114-39509

14	1542	60.3	523	13	US-10-051-902-24	Sequence 24, Appl
15	1542	60.3	523	13	US-10-051-909-24	Sequence 24, Appl
16	1487.5	58.1	517	15	US-10-425-114-56035	Sequence 56035, A
17	1483.5	58.0	548	10	US-09-774-381-40	Sequence 40, Appl
18	1483.5	58.0	549	13	US-10-051-902-30	Sequence 30, Appl
19	1483.5	58.0	549	13	US-10-051-909-30	Sequence 30, Appl
20	1471.5	57.5	553	16	US-10-437-963-180998	Sequence 180998,
21	1468.5	57.4	541	15	US-10-425-114-66733	Sequence 66733, A
22	1441	56.3	580	15	US-10-425-114-67056	Sequence 67056, A
23	1420	55.5	513	17	US-10-332-815A-2	Sequence 2, Appli
24	1380	53.9	546	15	US-10-425-114-63789	Sequence 63789, A
25	1299.5	50.8	424	15	US-10-424-599-199875	Sequence 199875,
26	1283.5	50.2	518	16	US-10-437-963-175554	Sequence 175554,
27	1281.5	50.1	488	15	US-10-424-599-169603	Sequence 169603,
28	1279.5	50.0	502	15	US-10-425-114-51712	Sequence 51712, A
29	1274	49.8	574	16	US-10-437-963-133626	Sequence 133626,
30	1195.5	46.7	407	15	US-10-425-114-49353	Sequence 49353, A
31	1193	46.6	531	15	US-10-424-599-182839	Sequence 182839,
32	1186	46.3	478	16	US-10-437-963-131904	Sequence 131904,
33	1182	46.2	281	15	US-10-425-114-50090	Sequence 50090, A
34	1172	45.8	485	16	US-10-437-963-195179	Sequence 195179,
35	1170	45.7	533	15	US-10-310-154-724	Sequence 724, App
36	1143.5	44.7	539	16	US-10-437-963-150795	Sequence 150795,
37	1111	43.4	535	16	US-10-437-963-165056	Sequence 165056,
38	1084.5	42.4	513	16	US-10-437-963-124673	Sequence 124673,
39	1052	41.1	408	15	US-10-424-599-199163	Sequence 199163,
40	1022	39.9	417	15	US-10-425-114-49121	Sequence 49121, A
41	1004.5	39.3	441	16	US-10-437-963-200821	Sequence 200821,
42	891	34.8	489	16	US-10-437-963-165054	Sequence 165054,
43	780.5	30.5	336	15	US-10-425-114-63429	Sequence 63429, A
44	755	29.5	197	16	US-10-767-701-60636	Sequence 60636, A
45	700	27.4	249	15	US-10-424-599-190445	Sequence 190445,

ALIGNMENTS

RESULT 1  
US-10-051-902-20  
; Sequence 20, Application US/10051902  
; Publication No. US20020178468A1  
; GENERAL INFORMATION:  
; APPLICANT: Allen, Steve  
; APPLICANT: Hitz, Bill  
; APPLICANT: Kinney, Tony  
; APPLICANT: Tingey, Scott  
; TITLE OF INVENTION: Plant Sugar Transport Proteins  
; FILE REFERENCE: BB-1163  
; CURRENT APPLICATION NUMBER: US/10/051,902  
; CURRENT FILING DATE: 2002-01-17  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/291,922  
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-14  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: Microsoft Office 97  
; SEQ ID NO 20  
; LENGTH: 513  
; TYPE: PRT  
; ORGANISM: Zea mays  
US-10-051-902-20

Query Match 100.0%; Score 2559; DB 13; Length 513;  
Best Local Similarity 100.0%; Pred. No. 7.3e-220;  
Matches 513; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MASDELAKAVEPRKKNVKYASICAILASMASVILGYDIGVMSGAAMYIKKDLNITDVQL 60
Db	1	MASDELAKAVEPRKKNVKYASICAILASMASVILGYDIGVMSGAAMYIKKDLNITDVQL 60
QY	61	EILIGILSLYSLFSGFAGARTSDRIGRRRLTVVFAAIVFFVGSLLMGFAVNYGMLMAGRFBV 120
Db	61	EILIGILSLYSLFSGFAGARTSDRIGRRRLTVVFAAIVFFVGSLLMGFAVNYGMLMAGRFBV 120
QY	121	AGVGVGYGGMIAPVYTAETISPAASRGFLTTFPEVFINIGILLGLYLSNFAFARLPFLHLGWR 180

Db 121 AGVGVYGGMIAPVYTAETSPAAASRGFLTTFFPEVFINIGILLGYLSNFAFARLPLHLGWR 180  
QY 181 VMLAIGAVPSGLLALLVFCMPESPRLVLKGRLDARAVLEKTSATPEEAAERLADIKAA 240  
Db 181 VMLAIGAVPSGLLALLVFCMPESPRLVLKGRLDARAVLEKTSATPEEAAERLADIKAA 240  
QY 241 AGIPKGLDGDVVTPGKEQGGELQVWKLLILSPTPAVRRILLSAVGLHFFQOASGSDSV 300  
Db 241 AGIPKGLDGDVVTPGKEQGGELQVWKLLILSPTPAVRRILLSAVGLHFFQOASGSDSV 300  
QY 301 VOYSARLFKSAGITDDNKLIGVTCVAVGVTCTFFILVATFLLDRAGRRPLLLISTGGMIVS 360  
Db 301 VOYSARLFKSAGITDDNKLIGVTCVAVGVTCTFFILVATFLLDRAGRRPLLLISTGGMIVS 360  
QY 361 LICLSGLTVAGHHPDTKVAWAVALCIASTLSYIAFFSIGLGPITGVYTSEIFPLQVRAL 420  
Db 361 LICLSGLTVAGHHPDTKVAWAVALCIASTLSYIAFFSIGLGPITGVYTSEIFPLQVRAL 420  
QY 421 GFAVGASNRVTSAVISMTFLSLSKAITIGGSFFLYSGIAAAVAVVFFFTCLPETRGRITL 480  
Db 421 GFAVGASNRVTSAVISMTFLSLSKAITIGGSFFLYSGIAAAVAVVFFFTCLPETRGRITL 480  
QY 481 EMGKLFMPDPTGMAEEAEADAAAKEKVVELPSSK 513  
Db 481 EMGKLFMPDPTGMAEEAEADAAAKEKVVELPSSK 513

RESULT 2

US-10-051-909-20  
; Sequence 20, Application US/10051909  
; Publication No. US20020199217A1  
; GENERAL INFORMATION:  
; APPLICANT: Allen, Steve  
; APPLICANT: Helentjaris, Tim  
; APPLICANT: Hitz, Bill  
; APPLICANT: Kinney, Tony  
; APPLICANT: Tingey, Scott  
; TITLE OF INVENTION: Plant Sugar Transport Proteins  
; FILE REFERENCE: B01163 US CIP  
; CURRENT APPLICATION NUMBER: US/10/051,909  
; CURRENT FILING DATE: 2002-01-17  
; PRIOR APPLICATION NUMBER: 60/083,044  
; PRIOR FILING DATE: April 24, 1998  
; NUMBER OF SEQ ID NOS: 38  
; SOFTWARE: Microsoft Office 97  
; SEQ ID NO 20  
; LENGTH: 513  
; TYPE: PRT  
; ORGANISM: Zea mays  
US-10-051-909-20

Query Match 100.0%; Score 2559; DB 13; Length 513;  
Best Local Similarity 100.0%; Pred. No. 7.3e-220;  
Matches 513; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASDELAKAVEPRKKGNVKYASICAILASMASVILGYDIGVMSGAAMYIKKDLNITDVQL 60  
Db 1 MASDELAKAVEPRKKGNVKYASICAILASMASVILGYDIGVMSGAAMYIKKDLNITDVQL 60  
QY 61 EILIGILSLYSLFGSFAGARTSDRIGRRLTVVFAAVIFFVGSLLMGFAVNYGMLMAGRFV 120  
Db 61 EILIGILSLYSLFGSFAGARTSDRIGRRLTVVFAAVIFFVGSLLMGFAVNYGMLMAGRFV 120  
QY 121 AGVGVYGGMIAPVYTAETSPAAASRGFLTTFFPEVFINIGILLGYLSNFAFARLPLHLGWR 180  
Db 121 AGVGVYGGMIAPVYTAETSPAAASRGFLTTFFPEVFINIGILLGYLSNFAFARLPLHLGWR 180  
QY 181 VMLAIGAVPSGLLALLVFCMPESPRLVLKGRLDARAVLEKTSATPEEAAERLADIKAA 240  
Db 181 VMLAIGAVPSGLLALLVFCMPESPRLVLKGRLDARAVLEKTSATPEEAAERLADIKAA 240  
QY 241 AGIPKGLDGDVVTPGKEQGGELQVWKLLILSPTPAVRRILLSAVGLHFFQOASGSDSV 300

Db 241 AGIPKGLDGDVVTPGKEQGGELQVWKLLILSPTPAVRRILLSAVGLHFFQOASGSDSV 300  
QY 301 VOYSARLFKSAGITDDNKLIGVTCVAVGVTCTFFILVATFLLDRAGRRPLLLISTGGMIVS 360  
Db 301 VOYSARLFKSAGITDDNKLIGVTCVAVGVTCTFFILVATFLLDRAGRRPLLLISTGGMIVS 360  
QY 361 LICLSGLTVAGHHPDTKVAWAVALCIASTLSYIAFFSIGLGPITGVYTSEIFPLQVRAL 420  
Db 361 LICLSGLTVAGHHPDTKVAWAVALCIASTLSYIAFFSIGLGPITGVYTSEIFPLQVRAL 420  
QY 421 GFAVGASNRVTSAVISMTFLSLSKAITIGGSFFLYSGIAAAVAVVFFFTCLPETRGRITL 480  
Db 421 GFAVGASNRVTSAVISMTFLSLSKAITIGGSFFLYSGIAAAVAVVFFFTCLPETRGRITL 480  
QY 481 EMGKLFMPDPTGMAEEAEADAAAKEKVVELPSSK 513  
Db 481 EMGKLFMPDPTGMAEEAEADAAAKEKVVELPSSK 513

RESULT 3  
US-10-767-701-46041  
; Sequence 46041, Application US/10767701  
; Publication No. US20040172684A1  
; GENERAL INFORMATION:  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53535)B  
; CURRENT APPLICATION NUMBER: US/10/767,701  
; CURRENT FILING DATE: 2004-01-29  
; NUMBER OF SEQ ID NOS: 63128  
; SEQ ID NO 46041  
; LENGTH: 510  
; TYPE: PRT  
; ORGANISM: Sorghum bicolor  
; FEATURE:  
; OTHER INFORMATION: Clone ID: SORBI-28MAY03-C26689\_1.pep  
US-10-767-701-46041

Query Match 87.7%; Score 2243; DB 16; Length 510;  
Best Local Similarity 87.5%; Pred. No. 1.3e-191;  
Matches 447; Conservative 26; Mismatches 36; Indels 2; Gaps 2;

QY 1 MASDELAKAVEPRKKGNVKYASICAILASMASVILGYDIGVMSGAAMYIKKDLNITDVQL 60  
Db 1 MASADLAEAEIETPKSNVYKASICAILASMASVILGYDIGVMSGAAMYIKKDLNITDVQL 60  
QY 61 EILIGILSLYSLFGSFAGARTSDRIGRRLTVVFAAVIFFVGSLLMGFAVNYGMLMAGRFV 120  
Db 61 EIMIGILSVYSLIGSFAGARTSDRIGRRLTVVFAAVIFFVGSLLMGFAVNYGMLMAGRFV 120  
QY 121 AGVGVYGGMIAPVYTAETSPAAASRGFLTTFFPEVFINIGILLGYLSNFAFARLPLHLGWR 180  
Db 121 AGVGVYGGMIAPVYTAETSPAAASRGFLTTFFPEVFINIGILLGYLSNFAFARLPLHLGWR 180  
QY 181 VMLAIGAVPSGLLALLVFCMPESPRLVLKGRLDARAVLEKTSATPEEAAERLADIKAA 240  
Db 181 VMLGIGAAPSALLALMVFCMPESPRLVMKGRLDARAVLEKTSASPEEAAERLADIKVA 240  
QY 241 AGIPKGLDGDVVTPGKEQGGELQVWKLLILSPTPAVRRILLSAVGLHFFQOASGSDSV 300  
Db 241 AGIPKDLGDVVTPV-KERNGEMQVWKALIFSPIPAIRRILLSGVGLHFFQOASGSDSV 299  
QY 301 VOYSARLFKSAGITDDNKLIGVTCVAVGVTCTFFILVATFLLDRAGRRPLLLISTGGMIVS 360  
Db 300 VLYSPSVFKSAGITDDNKLIGVTCVAVGSKTLFILVATFLLDRVRRPLLLTSAGGMIVA 359  
QY 361 LICLSGLTVAGHHPDTKVAWAVALCIASTLSYIAFFSIGLGPITGVYTSEIFPLQVRAL 420  
Db 360 LIGLGTGLTVVGHHPDAKIPSAVALCIASTLAYVAFFSIGLGPITGVYNSEIFPLQVRAL 419

QY 421 GFAVGASNRVTSAVISMTFLSLSKAITIGGSFFLYSGIAAVAVVFFFTCLPETRGRILE 480  
Db 420 GFAVGACNRVTSAVISMTFLSLSKGITIGGSFFLYSGIAAVGVVFFFTCLPETRGRILE 479  
QY 481 EMGKLFMPDTCMAEEAEDAAAKEKVVELPS 511  
Db 480 EMGKLFMPDIDMA-QADDTAAKEKVVEPT 509

RESULT 4  
US-10-051-902-28  
; Sequence 28, Application US/10051902  
; Publication No. US20020178468A1  
; GENERAL INFORMATION:  
; APPLICANT: Allen, Steve  
; APPLICANT: Hitz, Bill  
; APPLICANT: Kinney, Tony  
; APPLICANT: Tingey, Scott  
; TITLE OF INVENTION: Plant Sugar Transport Proteins  
; FILE REFERENCE: BB-1163  
; CURRENT APPLICATION NUMBER: US/10/051,902  
; CURRENT FILING DATE: 2002-01-17  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/291,922  
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-14  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: Microsoft Office 97  
; SEQ ID NO 28  
; LENGTH: 529  
; TYPE: PRT  
; ORGANISM: Triticum aestivum  
US-10-051-902-28

Query Match 74.5%; Score 1906.5; DB 13; Length 529;  
Best Local Similarity 73.6%; Pred. No. 1.6e-161;  
Matches 373; Conservative 58; Mismatches 71; Indels 5; Gaps 3;

QY 1 MASDELAK--AVEPRKKGNVKYASICAILASMASVILGYDVGMSGAAMYIKKDLNITDV 58  
Db 19 MASAALPEPGAVHPRNKGNFKYAFTCALCASMATIVILGYDVGMSGASLYIKRDLQITDV 78  
QY 59 QLEILIGILSLYSLFGSFAGARTSDRIGRRLTVVFAAVIFFVGSLLMGFAVNYGMLMAGR 118  
Db 79 QLEIMMGILSVYALIGSLFAGARTSDWVGRRVTVVFAAAIFNNGSLLMGFAVNYAMLVGR 138  
QY 119 FVAGVGVGYGGMIAPVYTAEISPAASRGFLTTFPEVEFINIGILLGYLSNFAFARLPLHLG 178  
Db 139 FVTGIGVGYAIMVAPVYTPVSPASARGFLTSTFTEVINVGILLGYVSNYAFARLPLHLS 198  
QY 179 WRVMLAIGAVPSGLLALLVFCMPESPRLVLKGRLDARAVLEKTSATPEEAERLADIK 238  
Db 199 WRVMLGIGAVPSALLALMVFGMPESPRLVMKGRLDARAVLAKTSDTPEEAVERLDQIK 258  
QY 239 AAAGIPKGLDGDVVTVPGKEGGELQVWKLLILSPTPAVRRILLSAVGLHFFFOQASGSD 298  
Db 259 AAAGIPRELDGDVVVMP-KTKGGQEKQVWKELIFSPTPAMRRILLAAALGIHFFFOQATGSD 317  
QY 299 SVVQYSARLFKSAGITDDNKLGLGVTCAVGVTKTFILVATFLLDRAGRRPLLLISTGGM 358  
Db 318 SVVLYSPRVFQSGITGDNHLLGATCAMGVMTLFIIVATFQLDRVGRRRPLLLTSTAGML 377  
QY 359 VSLICLSGLTVAGHHPDTKVAVAVALCIASTLSYIAFFSIGLGPITGVYTSEIFPLQVR 418  
Db 378 ACLIGLGTGLTVVGRHPDAKVPWAIGLCIVSILAYVSFFSIGLPLTSVYTSVTFPLRVR 437  
QY 419 ALGFVAVGASNRVTSAVISMTFLSLSKAITIGGSFFLYSGIAAVAVVFFFTCLPETRGR 478  
Db 438 ALGFALGTSCNRVTSAAVSMFSLSLKAITIGGSFFLYAGIAAGIWIFFFTFIPETRGLP 497  
QY 479 LEEMGKLFMPDTCMAEEAEDAAAKEK 505  
Db 498 LEEIGKLFGMTDT--AVEAQDTATKDK 522

RESULT 5  
US-10-051-909-28  
; Sequence 28, Application US/10051909  
; Publication No. US20020199217A1  
; GENERAL INFORMATION:  
; APPLICANT: Allen, Steve  
; APPLICANT: Helentjaris, Tim  
; APPLICANT: Hitz, Bill  
; APPLICANT: Kinney, Tony  
; APPLICANT: Tingey, Scott  
; TITLE OF INVENTION: Plant Sugar Transport Proteins  
; FILE REFERENCE: BB1163 US CIP  
; CURRENT APPLICATION NUMBER: US/10/051,909  
; CURRENT FILING DATE: 2002-01-17  
; PRIOR APPLICATION NUMBER: 60/083,044  
; PRIOR FILING DATE: April 24, 1998  
; NUMBER OF SEQ ID NOS: 38  
; SOFTWARE: Microsoft Office 97  
; SEQ ID NO 28  
; LENGTH: 529  
; TYPE: PRT  
; ORGANISM: Triticum aestivum  
US-10-051-909-28

Query Match 74.5%; Score 1906.5; DB 13; Length 529;  
Best Local Similarity 73.6%; Pred. No. 1.6e-161;  
Matches 373; Conservative 58; Mismatches 71; Indels 5; Gaps 3;

QY 1 MASDELAK--AVEPRKKGNVKYASICAILASMASVILGYDVGMSGAAMYIKKDLNITDV 58  
Db 19 MASAALPEPGAVHPRNKGNFKYAFTCALCASMATIVILGYDVGMSGASLYIKRDLQITDV 78  
QY 59 QLEILIGILSLYSLFGSFAGARTSDRIGRRLTVVFAAVIFFVGSLLMGFAVNYGMLMAGR 118  
Db 79 QLEIMMGILSVYALIGSLFAGARTSDWVGRRVTVVFAAAIFNNGSLLMGFAVNYAMLVGR 138  
QY 119 FVAGVGVGYGGMIAPVYTAEISPAASRGFLTTFPEVEFINIGILLGYLSNFAFARLPLHLG 178  
Db 139 FVTGIGVGYAIMVAPVYTPVSPASARGFLTSTFTEVINVGILLGYVSNYAFARLPLHLS 198  
QY 179 WRVMLAIGAVPSGLLALLVFCMPESPRLVLKGRLDARAVLEKTSATPEEAERLADIK 238  
Db 199 WRVMLGIGAVPSALLALMVFGMPESPRLVMKGRLDARAVLAKTSDTPEEAVERLDQIK 258  
QY 239 AAAGIPKGLDGDVVTVPGKEGGELQVWKLLILSPTPAVRRILLSAVGLHFFFOQASGSD 298  
Db 259 AAAGIPRELDGDVVVMP-KTKGGQEKQVWKELIFSPTPAMRRILLAAALGIHFFFOQATGSD 317  
QY 299 SVVQYSARLFKSAGITDDNKLGLGVTCAVGVTKTFILVATFLLDRAGRRPLLLISTGGM 358  
Db 318 SVVLYSPRVFQSGITGDNHLLGATCAMGVMTLFIIVATFQLDRVGRRRPLLLTSTAGML 377  
QY 359 VSLICLSGLTVAGHHPDTKVAVAVALCIASTLSYIAFFSIGLGPITGVYTSEIFPLQVR 418  
Db 378 ACLIGLGTGLTVVGRHPDAKVPWAIGLCIVSILAYVSFFSIGLPLTSVYTSVTFPLRVR 437  
QY 419 ALGFVAVGASNRVTSAVISMTFLSLSKAITIGGSFFLYSGIAAVAVVFFFTCLPETRGR 478  
Db 438 ALGFALGTSCNRVTSAAVSMFSLSLKAITIGGSFFLYAGIAAGIWIFFFTFIPETRGLP 497  
QY 479 LEEMGKLFMPDTCMAEEAEDAAAKEK 505  
Db 498 LEEIGKLFGMTDT--AVEAQDTATKDK 522

RESULT 6  
US-10-051-902-22  
; Sequence 22, Application US/10051902  
; Publication No. US20020178468A1  
; GENERAL INFORMATION:  
; APPLICANT: Allen, Steve  
; APPLICANT: Hitz, Bill



APPLICANT: Kinney, Tony  
APPLICANT: Tingey, Scott  
TITLE OF INVENTION: Plant Sugar Transport Proteins  
FILE REFERENCE: BB-1163  
CURRENT APPLICATION NUMBER: US/10/051,902  
CURRENT FILING DATE: 2002-01-17  
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/291,922  
PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-14  
NUMBER OF SEQ ID NOS: 30  
SOFTWARE: Microsoft Office 97  
SEQ ID NO 22  
LENGTH: 510  
TYPE: PRT  
ORGANISM: Oryza sativa  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: (102)  
US-10-051-902-22

Query Match 73.2%; Score 1872.5; DB 13; Length 510;  
Best Local Similarity 72.7%; Pred. No. 1.7e-158;  
Matches 372; Conservative 60; Mismatches 77; Indels 3; Gaps 2;

QY 1 MASDELAKAVEPRKKGNVYASICAILASMASVILGYDIGVMSGAAAMYIKDLNITDVQL 60  
Db 1 MASAALPEAVAPKKGKGNVRFAFACAILASMTSILLGYDIGVMSGASLYIKKDFNISDGKV 60  
QY 61 EILIGILSLYSLFGSFAGARTSDRIGRRLTVVFAAVIFFVGSLLMGFAVNYGMLMAGRFRV 120  
Db 61 EVLMGILNLYSLIGSFAGRTSDWIGRRYTIIVFAAVIFFAGXFLMGFAVNYAMLFGFRV 120  
QY 121 AGVGVYGGMIAPVYTAETSPAASRGFLTTFPEVFINIGILLGYSNFAFARLPLHLGWR 180  
Db 121 AGIGVGYALMIAPVYTAEVSPASARGFLTSFPEVFINFGILLGYVSNYAFSRLPLNLGWR 180  
QY 181 VMLAIGAVPSGLLALLVFCMPESPRLVLKGRADARAVLEKTSATPEEAAERLADIKAA 240  
Db 181 IMLGIGAAPSULLALMVLGMPESPRLVLKGRADAKVVLEKTSDTAEAAERLADIKAA 240  
QY 241 AGIPKGLDGDVVTVPGKEQGGELQVWKLLILSPTPAVRILLSSAVGLHFFQOASGSDSV 300  
Db 241 AGIPEELDGDVVTVP-KRGSNEKRVWKELILSPTPAMRRILLSGIGIHFFQHALGIHSV 299  
QY 301 VOYSARLFKSAGITDDNKLGLVTCVAGVTCTFFILVATFLLDRAGRRPLLLISTGGMIVS 360  
Db 300 VFYSPLVFKSPGLTNDKHFGLTTPFGVTKRLFILLATFFIDGVGRRPLLLGSGIILS 359  
QY 361 LICLSGLTVAGHPDTKVAVAVALCIASLTSLYIAFFSIGLGPITGVYTSEIFPLQVRAL 420  
Db 360 LIGLGAGLTVVGQHPDAKIPWAIGLSIASTLAYVAFFSIGLGPITWVYSSEIFPLQVRAL 419  
QY 421 GFAVGVAASNRVTSAVISMTFLSLSKAITIGGSFFLYSGIAAVAVWVFFFTCLPETRGRTLE 480  
Db 420 GCSLGVAAANRVTSVISMFTLSLKAITIGGSFFLYSGIAALAWVFFYTYLPETRGRTLE 479  
QY 481 EMGKLFMPDTCMAEEAEADAKEKVVLPSS 512  
Db 480 EMSKLF--DTAAASESDEPAKEKKVEMAAT 509

RESULT 7  
US-10-051-909-22  
Sequence 22, Application US/10051909  
Publication No. US20020199217A1  
GENERAL INFORMATION:  
APPLICANT: Allen, Steve  
APPLICANT: Helentjaris, Tim  
APPLICANT: Hitz, Bill  
APPLICANT: Kinney, Tony  
APPLICANT: Tingey, Scott  
TITLE OF INVENTION: Plant Sugar Transport Proteins  
FILE REFERENCE: BB1163 US CIP  
CURRENT APPLICATION NUMBER: US/10/051,909

CURRENT FILING DATE: 2002-01-17  
PRIOR APPLICATION NUMBER: 60/083,044  
PRIOR FILING DATE: April 24, 1998  
NUMBER OF SEQ ID NOS: 38  
SOFTWARE: Microsoft Office 97  
SEQ ID NO 22  
LENGTH: 510  
TYPE: PRT  
ORGANISM: Oryza sativa  
FEATURE:  
NAME/KEY: UNSURE  
LOCATION: (102)  
US-10-051-909-22

Query Match 73.2%; Score 1872.5; DB 13; Length 510;  
Best Local Similarity 72.7%; Pred. No. 1.7e-158;  
Matches 372; Conservative 60; Mismatches 77; Indels 3; Gaps 2;

QY 1 MASDELAKAVEPRKKGNVYASICAILASMASVILGYDIGVMSGAAAMYIKDLNITDVQL 60  
Db 1 MASAALPEAVAPKKGKGNVRFAFACAILASMTSILLGYDIGVMSGASLYIKKDFNISDGKV 60  
QY 61 EILIGILSLYSLFGSFAGARTSDRIGRRLTVVFAAVIFFVGSLLMGFAVNYGMLMAGRFRV 120  
Db 61 EVLMGILNLYSLIGSFAGRTSDWIGRRYTIIVFAAVIFFAGXFLMGFAVNYAMLFGFRV 120  
QY 121 AGVGVYGGMIAPVYTAETSPAASRGFLTTFPEVFINIGILLGYSNFAFARLPLHLGWR 180  
Db 121 AGIGVGYALMIAPVYTAEVSPASARGFLTSFPEVFINFGILLGYVSNYAFSRLPLNLGWR 180  
QY 181 VMLAIGAVPSGLLALLVFCMPESPRLVLKGRADARAVLEKTSATPEEAAERLADIKAA 240  
Db 181 IMLGIGAAPSULLALMVLGMPESPRLVLKGRADAKVVLEKTSDTAEAAERLADIKAA 240  
QY 241 AGIPKGLDGDVVTVPGKEQGGELQVWKLLILSPTPAVRILLSSAVGLHFFQOASGSDSV 300  
Db 241 AGIPEELDGDVVTVP-KRGSNEKRVWKELILSPTPAMRRILLSGIGIHFFQHALGIHSV 299  
QY 301 VOYSARLFKSAGITDDNKLGLVTCVAGVTCTFFILVATFLLDRAGRRPLLLISTGGMIVS 360  
Db 300 VFYSPLVFKSPGLTNDKHFGLTTPFGVTKRLFILLATFFIDGVGRRPLLLGSGIILS 359  
QY 361 LICLSGLTVAGHPDTKVAVAVALCIASLTSLYIAFFSIGLGPITGVYTSEIFPLQVRAL 420  
Db 360 LIGLGAGLTVVGQHPDAKIPWAIGLSIASTLAYVAFFSIGLGPITWVYSSEIFPLQVRAL 419  
QY 421 GFAVGVAASNRVTSAVISMTFLSLSKAITIGGSFFLYSGIAAVAVWVFFFTCLPETRGRTLE 480  
Db 420 GCSLGVAAANRVTSVISMFTLSLKAITIGGSFFLYSGIAALAWVFFYTYLPETRGRTLE 479  
QY 481 EMGKLFMPDTCMAEEAEADAKEKVVLPSS 512  
Db 480 EMSKLF--DTAAASESDEPAKEKKVEMAAT 509

RESULT 8  
US-10-437-963-190473  
Sequence 190473, Application US/10437963  
Publication No. US20040123343A1  
GENERAL INFORMATION:  
APPLICANT: La Rosa, Thomas J.  
APPLICANT: Kovalic, David K.  
APPLICANT: Zhou, Yihua  
APPLICANT: Cao, Yongwei  
APPLICANT: Wu, Wei  
APPLICANT: Boukharov, Andrey A.  
APPLICANT: Barbazuk, Brad  
APPLICANT: Li, Ping  
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
FILE REFERENCE: 38-21(53221)B  
CURRENT APPLICATION NUMBER: US/10/437,963  
CURRENT FILING DATE: 2003-05-14

		Query Match		69.0%; Score 1764.5; DB 13; Length 539;	
		Best Local Similarity		68.8%; Pred. No. 8.3e-149;	
		Matches		351; Conservative 63; Mismatches 91; Indels 5; Gaps 2;	
		TYPE: PRT			
		ORGANISM: Oryza sativa			
		FEATURE:			
		OTHER INFORMATION: Clone ID: PAT_MRT4530_86885C.1.pap			
		US-10-437-963-190473			
		Query Match		72.5%; Score 1854; DB 16; Length 502;	
		Best Local Similarity		74.3%; Pred. No. 7.5e-157;	
		Matches		372; Conservative 61; Mismatches 62; Indels 6; Gaps 5;	
		TYPE: PRT			
		ORGANISM: Triticum aestivum			
		FEATURE:			
		OTHER INFORMATION: EARLIER APPLICATION NUMBER: 1999-04-14			
		PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-14			
		NUMBER OF SEQ ID NOS: 30			
		SOFTWARE: Microsoft Office 97			
		SEQ ID NO 26			
		LENGTH: 539			
		TYPE: PRT			
		ORGANISM: Triticum aestivum			
		US-10-051-902-26			
		RESULT 9			
		US-10-051-902-26			
		Sequence 26, Application US/10051902			
		Publication No. US20020178468A1			
		GENERAL INFORMATION:			
		APPLICANT: Allen, Steve			
		APPLICANT: Hitz, Bill			
		APPLICANT: Kinney, Tony			
		APPLICANT: Tingey, Scott			
		TITLE OF INVENTION: Plant Sugar Transport Proteins			
		FILE REFERENCE: BB-1163			
		CURRENT APPLICATION NUMBER: US/10/051,902			
		CURRENT FILING DATE: 2002-01-17			
		PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 1999-04-14			
		PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-14			
		NUMBER OF SEQ ID NOS: 30			
		SOFTWARE: Microsoft Office 97			
		SEQ ID NO 26			
		LENGTH: 539			
		TYPE: PRT			
		ORGANISM: Triticum aestivum			
		US-10-051-902-26			
		RESULT 10			
		US-10-051-909-26			
		Sequence 26, Application US/10051909			
		Publication No. US20020199217A1			
		GENERAL INFORMATION:			
		APPLICANT: Allen, Steve			
		APPLICANT: Helentjaris, Tim			
		APPLICANT: Hitz, Bill			
		APPLICANT: Kinney, Tony			
		APPLICANT: Tingey, Scott			
		TITLE OF INVENTION: Plant Sugar Transport Proteins			
		FILE REFERENCE: BB1163 US CIP			
		CURRENT APPLICATION NUMBER: US/10/051,909			
		CURRENT FILING DATE: 2002-01-17			
		PRIOR APPLICATION NUMBER: 60/083,044			
		PRIOR FILING DATE: April 24, 1998			
		NUMBER OF SEQ ID NOS: 38			
		SOFTWARE: Microsoft Office 97			
		SEQ ID NO 26			
		LENGTH: 539			
		TYPE: PRT			
		ORGANISM: Triticum aestivum			
		US-10-051-909-26			
		Query Match		69.0%; Score 1764.5; DB 13; Length 539;	
		Best Local Similarity		68.8%; Pred. No. 8.3e-149;	
		Matches		351; Conservative 63; Mismatches 91; Indels 5; Gaps 2;	
		TYPE: PRT			
		ORGANISM: Triticum aestivum			
		FEATURE:			
		OTHER INFORMATION: EARLIER APPLICATION NUMBER: 1999-04-14			
		PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-14			
		NUMBER OF SEQ ID NOS: 30			
		SOFTWARE: Microsoft Office 97			
		SEQ ID NO 26			
		LENGTH: 539			
		TYPE: PRT			
		ORGANISM: Triticum aestivum			
		US-10-051-902-26			
		RESULT 10			
		US-10-051-909-26			
		Sequence 26, Application US/10051909			
		Publication No. US20020199217A1			
		GENERAL INFORMATION:			
		APPLICANT: Allen, Steve			
		APPLICANT: Helentjaris, Tim			
		APPLICANT: Hitz, Bill			
		APPLICANT: Kinney, Tony			
		APPLICANT: Tingey, Scott			
		TITLE OF INVENTION: Plant Sugar Transport Proteins			
		FILE REFERENCE: BB1163 US CIP			
		CURRENT APPLICATION NUMBER: US/10/051,909			
		CURRENT FILING DATE: 2002-01-17			
		PRIOR APPLICATION NUMBER: 60/083,044			
		PRIOR FILING DATE: April 24, 1998			
		NUMBER OF SEQ ID NOS: 38			
		SOFTWARE: Microsoft Office 97			
		SEQ ID NO 26			
		LENGTH: 539			
		TYPE: PRT			
		ORGANISM: Triticum aestivum			
		US-10-051-909-26			
		Query Match		69.0%; Score 1764.5; DB 13; Length 539;	
		Best Local Similarity		68.8%; Pred. No. 8.3e-149;	
		Matches		351; Conservative 63; Mismatches 91; Indels 5; Gaps 2;	
		TYPE: PRT			
		ORGANISM: Triticum aestivum			
		FEATURE:			
		OTHER INFORMATION: EARLIER APPLICATION NUMBER: 1999-04-14			
		PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-14			
		NUMBER OF SEQ ID NOS: 30			
		SOFTWARE: Microsoft Office 97			
		SEQ ID NO 26			
		LENGTH: 539			
		TYPE: PRT			
		ORGANISM: Triticum aestivum			
		US-10-051-902-26			
		RESULT 10			
		US-10-051-909-26			
		Sequence 26, Application US/10051909			
		Publication No. US20020199217A1			
		GENERAL INFORMATION:			
		APPLICANT: Allen, Steve			
		APPLICANT: Helentjaris, Tim			
		APPLICANT: Hitz, Bill			
		APPLICANT: Kinney, Tony			
		APPLICANT: Tingey, Scott			
		TITLE OF INVENTION: Plant Sugar Transport Proteins			
		FILE REFERENCE: BB1163 US CIP			
		CURRENT APPLICATION NUMBER: US/10/051,909			
		CURRENT FILING DATE: 2002-01-17			
		PRIOR APPLICATION NUMBER: 60/083,044			
		PRIOR FILING DATE: April 24, 1998			
		NUMBER OF SEQ ID NOS: 38			
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		SEQ ID NO 26			
		LENGTH: 539			
		TYPE: PRT			
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		US-10-051-909-26			
		Query Match		69.0%; Score 1764.5; DB 13; Length 539;	
		Best Local Similarity		68.8%; Pred. No. 8.3e-149;	
		Matches		351; Conservative 63; Mismatches 91; Indels 5; Gaps 2;	
		TYPE: PRT			
		ORGANISM: Triticum aestivum			
		FEATURE:			
		OTHER INFORMATION: EARLIER APPLICATION NUMBER: 1999-04-14			
		PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-14			
		NUMBER OF SEQ ID NOS: 30			
		SOFTWARE: Microsoft Office 97			
		SEQ ID NO 26			
		LENGTH: 539			
		TYPE: PRT			
		ORGANISM: Triticum aestivum			
		US-10-051-902-26			
		RESULT 10			
		US-10-051-909-26			
		Sequence 26, Application US/10051909			
		Publication No. US20020199217A1			
		GENERAL INFORMATION:			
		APPLICANT: Allen, Steve			
		APPLICANT: Helentjaris, Tim			
		APPLICANT: Hitz, Bill			
		APPLICANT: Kinney, Tony			
		APPLICANT: Tingey, Scott			
		TITLE OF INVENTION: Plant Sugar Transport Proteins			
		FILE REFERENCE: BB1163 US CIP			
		CURRENT APPLICATION NUMBER: US/10/051,909			
		CURRENT FILING DATE: 2002-01-17			
		PRIOR APPLICATION NUMBER: 60/083,044			
		PRIOR FILING DATE: April 24, 1998			
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		SEQ ID NO 26			
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		TYPE: PRT			
		ORGANISM: Triticum aestivum			
		US-10-051-909-26			
		Query Match		69.0%; Score 1764.5; DB 13; Length 539;	
		Best Local Similarity		68.8%; Pred. No. 8.3e-149;	
		Matches		351; Conservative 63; Mismatches 91; Indels 5; Gaps 2;	
		TYPE: PRT			
		ORGANISM: Triticum aestivum			
		FEATURE:			
		OTHER INFORMATION: EARLIER APPLICATION NUMBER: 1999-04-14			
		PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-14			
		NUMBER OF SEQ ID NOS: 30			
		SOFTWARE: Microsoft Office 97			
		SEQ ID NO 26			
		LENGTH: 539			
		TYPE: PRT			
		ORGANISM: Triticum aestivum			
		US-10-051-902-26			
		RESULT 10			
		US-10-051-909-26			
		Sequence 26, Application US/10051909			
		Publication No. US20020199217A1			
		GENERAL INFORMATION:			
		APPLICANT: Allen, Steve			
		APPLICANT: Helentjaris, Tim			
		APPLICANT: Hitz, Bill			
		APPLICANT: Kinney, Tony			
		APPLICANT: Tingey, Scott			
		TITLE OF INVENTION: Plant Sugar Transport Proteins			
		FILE REFERENCE: BB1163 US CIP			
		CURRENT APPLICATION NUMBER: US/10/051,909			
		CURRENT FILING DATE: 2002-01-17			
		PRIOR APPLICATION NUMBER: 60/083,044			
		PRIOR FILING DATE: April 24, 1998			
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		SOFTWARE: Microsoft Office 97			
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		US-10-051-909-26			
		Query Match		69.0%; Score 1764.5; DB 13; Length 539;	
		Best Local Similarity		68.8%; Pred. No. 8.3e-149;	
		Matches		351; Conservative 63; Mismatches 91; Indels 5; Gaps 2;	
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		NUMBER OF SEQ ID NOS: 30			
		SOFTWARE: Microsoft Office 97			
		SEQ ID NO 26			
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		TYPE: PRT			
		ORGANISM: Triticum aestivum			
		US-10-051-902-26			
		RESULT 10			
		US-10-051-909-26			
		Sequence 26, Application US/10051909			
		Publication No. US20020199217A1			
		GENERAL INFORMATION:			
		APPLICANT: Allen, Steve			
		APPLICANT: Helentjaris, Tim			
		APPLICANT: Hitz, Bill			
		APPLICANT: Kinney, Tony			
		APPLICANT: Tingey, Scott			
		TITLE OF INVENTION: Plant Sugar Transport Proteins			
		FILE REFERENCE: BB1163 US CIP			
		CURRENT APPLICATION NUMBER: US/10/051,909			
		CURRENT FILING DATE: 2002-01-17			
		PRIOR APPLICATION NUMBER: 60/083,044			
		PRIOR FILING DATE: April 24, 1998			
		NUMBER OF SEQ ID NOS: 38			
		SOFTWARE: Microsoft Office 97			
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		LENGTH: 539			
		TYPE: PRT			
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		US-10-051-909-26			
		Query Match		69.0%; Score 1764.5; DB 13; Length 539;	
		Best Local Similarity		68.8%; Pred. No. 8.3e-149;	
		Matches		351; Conservative 63; Mismatches 91; Indels 5; Gaps 2;	
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		SOFTWARE: Microsoft Office 97			
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		US-10-051-902-26			
		RESULT 10			
		US-10-051-909-26			
		Sequence 26, Application US/10051909			
		Publication No. US20020199217A1			
		GENERAL INFORMATION:			
		APPLICANT: Allen, Steve			
		APPLICANT: Helentjaris, Tim			
		APPLICANT: Hitz, Bill			
		APPLICANT: Kinney, Tony			
		APPLICANT: Tingey, Scott			
		TITLE OF INVENTION: Plant Sugar Transport Proteins			
		FILE REFERENCE: BB1163 US CIP			
		CURRENT APPLICATION NUMBER: US/10/051,909			
		CURRENT FILING DATE: 2002-01-17			
		PRIOR APPLICATION NUMBER: 60/083,044			
		PRIOR FILING DATE: April 24, 1998			
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		SOFTWARE: Microsoft Office 97			
		SEQ ID NO 26			
		LENGTH: 539			
		TYPE: PRT			
		ORGANISM: Triticum aestivum			
		US-10-051-909-26			
		Query Match		69.0%; Score 1764.5; DB 13; Length 539;	
		Best Local Similarity		68.8%; Pred. No. 8.3e-149;	
		Matches		351; Conservative 63; Mismatches 91; Indels 5; Gaps 2;	
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		SOFTWARE: Microsoft Office 97			
		SEQ ID NO 26			
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		US-10-051-902-26			
		RESULT 10			
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		Sequence 26, Application US/10051909			
		Publication No. US20020199217A1			
		GENERAL INFORMATION:			
		APPLICANT: Allen, Steve			
		APPLICANT: Helentjaris, Tim			
		APPLICANT: Hitz, Bill			
		APPLICANT: Kinney, Tony			
		APPLICANT: Tingey, Scott			
		TITLE OF INVENTION: Plant Sugar Transport Proteins			
		FILE REFERENCE: BB1163 US CIP			
		CURRENT APPLICATION NUMBER: US/10/051,909			
		CURRENT FILING DATE: 2002-01-17			
		PRIOR APPLICATION NUMBER: 60/083,044			
		PRIOR FILING DATE: April 24, 1998			
		NUMBER OF SEQ ID NOS: 38			
		SOFTWARE: Microsoft Office 97			
		SEQ ID NO 26			

QY	66	ILSLYSLEFGSFAGARTSDRIGRRRLTVVFAAVTFVVGSLLMGFAVNVMGMAGRFVAGVGV	125
Dd	91	ILNVYSLIGSFAAGRTSDWIGRRFTIVFAAVIFPAGALIMGFSVNYAMLMGFRFVAGIGV	150
QY	126	GYGMIAPVYTAEISPAASRGFLTTFPEVFINIGILLGYLSNFAFARLPLHLGWVRMLAI	185
Dd	151	GYALMIAPVNTGEVSPASARGVLTSFPEVFINGILLGYVSNFAPARLSLRLGWRIMLGI	210
QY	186	GAVPGLLALLVFCMPESPRLWLKGRLLADARAVLEKTSATPEEAAERLADIKAAAGIPK	245
Dd	211	GAVPSVLLAFMVLGMPESPRWLVMKGRLLADAKVVLAKTSDTPEEAAERIADIKTAAGIPL	270
QY	246	GLDGDVVTVPGKEQGGEIQVWKKLILSPTPAVRRIILLSAVGLHFFQQASGSDSVVQYSA	305
Dd	271	GLDGDVVVPVKNGSSEKRVLKDLILSPTIAMRHILIAGIGIHFFQQSSGIDAVVLYSP	330
QY	306	RLFKSAGITDDNKLLGVTCVAGVTKTFFILVATFLDDRAGRRPLLLISTGGMIVSLICLG	365
Dd	331	LVFKSAGITGDSRLRGTVAVGATNTVFILVATFLDDRIRRRPLVLTSTGGMLVSLVGLA	390
QY	366	SGLTVAGHHPDTKVAMAVALCIASTLSYIAFFSIGLGPITGVYTSEIFPLQVRALGFAVG	425
Dd	391	TGLTVISRHPDEKITWAIVLCIFCIMA YVAFSIGLGPITWTWYSSSEIFPLHVRLGC SLG	450
QY	426	VASNRVTSAVISMTFSLSKAITIGGSFFFLXSGIAAVAWVFFFTCLPETRGTLEEMGKL	485
Dd	451	VAVNRLTSGVISMTFISLSKANTIGGAFFLFAGIASFAWVFFFAYLPETRGTLEDMSL	510
QY	486	FGMPDT--GMAEEAEDA AAKEKVVELPSS	512
Dd	511	FGNTATHKQGAAEADDAG-EKKVEMAAT	538

RESULT 11  
US-10-425-114-68399  
; Sequence 68399, Application US/10425114  
; Publication No. US20040034888A1  
; GENERAL INFORMATION:  
; APPLICANT: Liu, Jingdong  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Screen, Steven E  
; APPLICANT: Tabaska, Jack E  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53313)B  
; CURRENT APPLICATION NUMBER: US/10/425,114  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 73128  
; SEQ ID NO 68399  
; LENGTH: 327  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: UC-ZMROB73004E08\_FLI.pep  
US-10-425-114-68399

QY	367	GLTVAGHHPD	TKVAVAV	ALCIAS	TLSTYIA	FFSIG	LGPIT	GVYTSE	IFPLQ	VRALG	FAVG	426	
Db	181	GLTVAGHHPD	TKVAVAV	ALCIAS	TLSTYIA	FFSIG	LGPIT	GVYTSE	IFPLQ	VRALG	FAVG	240	
QY	427	ASNRVTS	SAVIS	MTFL	SLSKA	ITIG	GSFF	LYSG	IAAV	AVVFFF	TCLP	PETGR	486
Db	241	ASNRVTS	SAVIS	MTFL	SLSKA	ITIG	GSFF	LYSG	IAAV	AVVFFF	TCLP	PETGR	300
QY	487	GMPTGMA	EEAE	DA	AA	KE	KV	EL	PSSK	513			
Db	301	GMPTGMA	EEAE	DA	AA	KE	KV	EL	PSSK	327			

RESULT 12

US-10-425-114-61926

; Sequence 61926, Application US/10425114

; Publication No. US2004003488A1

; GENERAL INFORMATION:

; APPLICANT: Liu, Jingdong

; APPLICANT: Zhou, Yihua

; APPLICANT: Kovalic, David K.

; APPLICANT: Screen, Steven E

; APPLICANT: Tabaska, Jack E

; APPLICANT: Cao, Yongwei

; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With

; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53313)B

; CURRENT APPLICATION NUMBER: US/10/425,114

; CURRENT FILING DATE: 2003-04-28

; NUMBER OF SEQ ID NOS: 73128

; SEQ ID NO 61926

; LENGTH: 356

; TYPE: PRT

; ORGANISM: Zea mays

; FEATURE:

; OTHER INFORMATION: Clone ID: LIB3593-006-F8\_FLI.pep

US-10-425-114-61926





Db	1	MTECKLVEAAEAHKTLQDFDPKXKRNKYAFACAMLASMTSILLGYDIGVMSGAAIYIK	60
QY	51	KDLNITDVQLEILIGILSLYSLEFGSPAGARTSDRIGRRLTVVFAAVIFFVGSLLMGFAVN	110
Db	61	RDLKVSDEQIEILLGIINLYSLIGSCLAGRTSDWIGPRYTVFAGTIFFFVGALLMGFSPN	120
QY	111	YGMLMAGRFVAGVGVGYGGMIAPVYTAEISPAASRGFLTTFPEVFINIGILLGYLSNEAF	170
Db	121	YSFLMFGRFVAGIGIGYALMIAPVYTAEVSPASSRGFLTSPPEVFINGGILIGIYSNYAF	180
QY	171	ARLPLHLGWRVMLAIGAVPSGLLALLVFCMPESPRWLVLKGRLDARAVLEKTSATPEEA	230
Db	181	SKLTIKVGRMMLGVGAIPSVLLTVGVLAMPESPRWLVMGRLGEARKVLNKTSDSKEEA	240
QY	231	AERLADIKAAAGIPKGLDGDVVTVPGKEQGGELQVWVKLILSPTPAVRRILLSAVGLHF	290
Db	241	QLRLAEIKQAAGIPESCNDVVQVKNQSNNEG---VMKELFLYPTPAIRHIVIAALGIHF	297
QY	291	FQASGSDSVVQYSARLFKSGAGITDDNKLLGVTCAVGVTKTFFILVATFLLDRAGRPLL	350
Db	298	FQASGVDVAVLYSPRIFEKAGITNDTHKLLATVAVGVKTVFILAATFTLDRVGRPLL	357
QY	351	LISGGMIVSLICLGSGLTVAGHHDDTKVAVAVALCIASTLSYIAFFSIGLGPITGVYTS	410
Db	358	LSSVGGMVLSSLTLAISLTVI-DHSERKLMWAVGSSIAMVLAYVATFSIGAGPITWVYSS	416
QY	411	EIPPLQVRALGFVAVGASNRVTSAVISMTFLSLSKAITIGGSFFLYSGIAAVWVFFFTC	470
Db	417	EIPFLRLRAQGAAGVAVNRTTSVAVVSMTFLSLTRAITIGGAFFLYCGIATVGNWIFFYTV	476
QY	471	LPETRGRRTLEEMGKLF	487
Db	477	LPETRKGKTLEDMEGSFG	493

Search completed: May 10, 2005, 08:26:12  
Job time : 137 secs